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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/534,321	03/24/2000	Adam J. Grove	10317-004-999	2426	
7470	7590 11/07/2003		EXAMINER		
WHITE & C	WHITE & CASE LLP			NGUYEN, QUANG N	
	PATENT DEPARTMENT 1155 AVENUE OF THE AMERICAS			PAPER NUMBER	
NEW YORK,	NY 10036		2141	1.7(
			DATE MAILED: 11/07/2003	17	

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-326 (Rev	v. 04-01)	Office Action Summary	Part of Paper No. 15	
2) Notice 3) Inform S. Patent and Tri		No(s) <u>13</u> . 6)	Interview Summary (PTO-413) Paper No(s). <u>14</u> . Notice of Informal Patent Application (PTO-152) Other:	
Attachment		iomesuc phonty under	55 U.S.C. 99 120 and/or 121.	
	$oxedsymbol{\square}$ The translation of the foreign languance $oxedsymbol{\square}$ The translation of the form $oxedsymbol{\square}$			
			5 U.S.C. § 119(e) (to a provisional application	on).
	ee the attached detailed Office action fo	or a list of the certified c	opies not received.	
	application from the Internation	nal Bureau (PCT Rule	ave been received in this National Stage 17.2(a)).	
	2. Certified copies of the priority doc			
	1. Certified copies of the priority doc			
a)[☐ All b)☐ Some * c)☐ None of:			•
_	Acknowledgment is made of a claim for	foreign priority under 3	5 U.S.C. § 119(a)-(d) or (f).	
	inder 35 U.S.C. §§ 119 and 120			
	The oath or declaration is objected to by	tne Examiner.		
40\□	If approved, corrected drawings are require	· •	ction.	
11) 🔲 -	The proposed drawing correction filed or		•	
_	Applicant may not request that any objecti		• •	
10)🖾 ¯	Γhe drawing(s) filed on <u>24 March 2000</u> is	s/are: a)⊠ accepted or b)□ objected to by the Examiner.	
9) 🗌 -	The specification is objected to by the Ex	xaminer.		
Applicati	on Papers			
8) 🗌	Claim(s) are subject to restriction	n and/or election require	ement.	
7)	Claim(s) is/are objected to.			
6)⊠	Claim(s) <u>1-65</u> is/are rejected.			
5) 🗌	Claim(s) is/are allowed.			
	4a) Of the above claim(s) <u>66</u> is/are witho	drawn from consideration	on.	
4) 🖂	Claim(s) 1-66 is/are pending in the app	olication.		
Dispositi	closed in accordance with the practice on of Claims	under Ex parte Quayle	, 1935 C.D. 11, 453 O.G. 213.	
3) 🗌	Since this application is in condition fo	r allowance except for t	ormal matters, prosecution as to the merits i	is
2a) <u></u> □	This action is FINAL . 2b)		înal.	
1)⊠	Responsive to communication(s) filed	on <u>12 September 2003</u>		
THE I - Exter after - If the - If NO - Failu - Any r	MAILING DATE OF THIS COMMUNICA nsions of time may be available under the provisions of 3' SIX (6) MONTHS from the mailing date of this communic period for reply specified above is less than thirty (30) da	TION. 7 CFR 1.136(a). In no event, hovation. ays, a reply within the statutory my period will apply and will expire by statute, cause the application	vever, may a reply be timely filed inimum of thirty (30) days will be considered timely. s SIX (6) MONTHS from the mailing date of this communication to become ABANDONED (35 U.S.C. § 133).	1.
	ORTENED STATUTORY PERIOD FOR	REPLY IS SET TO EX	PIRE 1 MONTH(S) FROM	
Period fo		tion appears on the cove	er sheet with the correspondence address	
		Quang N. Nguy	en 2141	
	Office Action Summary	Examiner	Art Unit	
		09/534,321	GROVE ET AL.	α
		Application No	Applicant(s)	5

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Detail Action

1. This Office Action is in response to the Amendment A filed on 09/12/2003.

Claims 1-66 are presented for examination. Claims 34-37, 39, 42, 45-49, 62, and 64-66

have been amended.

Election/Restrictions

2. Restriction to one of the following inventions is required under 35 U.S.C. 121:

I. Claims 1-65 are drawn to a method and system for communicating an

Internet message between a source and a destination over the Internet by selecting

nodes of different types and communicating through said nodes using different

protocols, classified in class 709, subclass 241 (Least Weight Routing).

II. Claim 66 is drawn to a method for communicating two Internet messages

from a source to a destination comprising, separating first and second messages into

corresponding first and second templates and first and second customization portion,

communicating the first template and the second customization portion to the

destination wherein the template includes information to reconstruct the second

message from the second customization portion, classified in class 709, subclass 247

(Compressing/Decompressing).

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3. The inventions are distinct, each from each other because of the following

reasons:

Inventions Group I and Group II are related as subcombinations disclosed

as usable together in a single combination. The subcombinations are distinct from each

other if they are shown to be separately usable. In the instant case, invention Group I

has separate utility such as communicating an Internet message between a source and

a destination over the Internet by selecting nodes of different types and communicating

through said nodes using different protocols (classified in 709/241). Invention Group II

has separate utility such as communicating two Internet messages from a source to a

destination comprising, separating first and second messages into corresponding first

and second templates and first and second customization portion, communicating the

first template and the second customization portion to the destination wherein the

template includes information to reconstruct the second message from the second

customization portion (classified in 709/247). See MPEP § 806.05(d).

4. The inventions are distinct, each from each other because of the following

reasons:

a. These inventions have acquired a separate status in the art as shown by

their different classification and their recognized divergent subject matter.

b. The search required for one Group is not required for the other Group.

For the reasons above, restriction for examination purposes as indicated is

proper.

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5. During a telephone conversation with the applicant's representative, Mrs. Wendi

R. Schepler, on 10/28/2003 a provisional election was made without traverse to

prosecute the invention of Adam Grove et al., SN 09/534,321, claims 1-66. Affirmation

of this election must be made by applicant in replying to this Office action. Claim 66 is

withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn

to a non-elected invention.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that

form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this

title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act

of 1999 (AIPA) and the Intellectual Property and High Technology Technical

Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting

directly or indirectly from an international application filed before November 29, 2000.

Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior

to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

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7. Claim 1-19 and 36-49 are rejected under 35 U.S.C. 102(e) as being

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anticipated by Gerstel (US 6,141,325).

8. As to claim 1, Gerstel teaches a method for communicating an Internet message

between a source and a destination over the Internet, comprising:

selecting a node of a first type (the network control "NC" of the source node

queries its agents to select a node 102 in subnet C of Fig. 1);

selecting a node of a second type (the network control "NC" of the source node

queries its agents to select a node 102 in subnet D of Fig. 1);

communicating an Internet message from the source (the source node 103 in

subnet A) to the node of the first type (the selected node 102 in subnet C) using a first

protocol (wherein the subnets A, B, C, and D all require different operating protocols);

communicating the Internet message from the node of the first type (the selected

node 102 in subnet C) to the node of the second type (the selected node 102 in subnet

D) using a second protocol (wherein the subnets A, B, C, and D all require different

operating protocols); and

communicating the Internet message from the node of the second type (the

selected node 102 in subnet D) to the destination (the destination node 104 in subnet B)

using a third protocol (the subnets A, B, C, and D all require different operating

protocols) (Gerstel, Fig. 1 and corresponding text, C3: L1-4, L34-65, and C4: L45-54).

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9. As to claim 2, Gerstel teaches a method for communicating an Internet message between a source and a destination over the Internet, comprising:

selecting a node of a first type (the network control "NC" of the source node queries its agent to select a node 102 in subnet C of Fig. 1);

communicating an Internet message from the source (the source node 103 in subnet A) to the node of the first type (the selected node 102 in subnet C) using a first protocol (wherein the subnets A, B, C, and D all require different operating protocols);

communicating the Internet message from the node of the first type (the selected node 102 in subnet C) to the node of the second type (the selected node 102 in subnet D) using a second protocol (wherein the subnets A, B, C, and D all require different operating protocols); and

communicating the Internet message from the node of the second type (the selected node 102 in subnet D) to the destination (the destination node 104 in subnet B) using a third protocol (wherein the subnets A, B, C, and D all require different operating protocols) (Gerstel, Fig. 1 and corresponding text, C3: L1-4, L34-65, and C4: L45-54).

10. As to claims 3-8, Gerstel teaches the method of claims 1-2, wherein the selecting steps (a) and (b) comprises:

for each of a plurality of candidate nodes of the first type and each of a plurality of candidate nodes of the second type, determining a measure of communications performance (such as bandwidth, quality of service "QoS", cost factors, etc) for selecting a combination of a node of the first type and a node of the second type to

optimize the measure of communications performance between the source and the destination (Gerstel, Figs. 10A-10B and corresponding text, C3: L60-65).

11. As to claim 9, Gerstel teaches a method for communicating an Internet message between a source and a destination over the Internet, comprising:

selecting a node of a first type and a node of a second type (the network control "NC" of the source node queries its agents to select a node 102 in subnet C and a node 102 in subnet D);

communicating an Internet message from the source (the source node 103 in subnet A) to the node of the first type (the selected node 102 in subnet C) using a first protocol (wherein the subnets A, B, C, and D all require different operating protocols);

communicating the Internet message from the node of the first type (the selected node 102 in subnet C) to the node of the second type (the selected node 102 in subnet D) using a second protocol (wherein the subnets A, B, C, and D all require different operating protocols); and

communicating the Internet message from the node of the second type (the selected node 102 in subnet D) to the destination (the destination node 104 in subnet B) using a third protocol (wherein the subnets A, B, C, and D all require different operating protocols) (Gerstel, Fig. 1 and corresponding text, C3: L1-4, L34-65, and C4: L45-54).

12. As to claims 10-12, Gerstel teaches the method of claim 9, wherein the selecting step (a) comprises:

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for each of a plurality of candidate nodes of the first type and each of a plurality of candidate nodes of the second type, determining a measure of communications performance (such as bandwidth, quality of service "QoS", cost factors, etc) for selecting a combination of a node of the first type and a node of the second type to optimize the measure of communications performance between the source and the destination (Gerstel, Figs. 10A-10B and corresponding text, C3: L60-65).

- 13. Claims 13 and 14 are corresponding method claims of claim 1 and 9 with reverse direction; therefore, they are rejected under the same rationale.
- 14. As to claim 15, Gerstel teaches a method for communicating an Internet message between a source and a destination over the Internet, comprising:

selecting a node of a first type (the network control "NC" of the source node queries its agent to select a node 102 in subnet C of Fig. 1);

communicating an Internet message from the source (the source node 103 in subnet A) to the node of the first type (the selected node 102 in subnet C) using a first protocol (wherein the subnets A, B, C, and D all require different operating protocols);

a node of a second type (a selected node 102 in subnet D) intercepting an Internet message from the node of the first type (the selected node 102 in subnet C), the Internet message from the node of the first type being communicated using a second protocol (wherein the subnets A, B, C, and D all require different operating protocols);

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communicating the Internet message from the node of the second type (the selected node 102 in subnet D) to the destination (the destination node 104 in subnet B) using a third protocol (wherein the subnets A, B, C, and D all require different operating protocols) (Gerstel, Fig. 1 and corresponding text, C3: L1-4, L34-65, and C4: L45-54).

15. As to claim 16, Gerstel teaches a method for communicating an Internet message between a source and a destination over the Internet, comprising:

selecting a node of a second type (the network control "NC" of the source node queries its agent to select a node 102 in subnet D of Fig. 1);

a node of a first type (a selected node 102 in subnet C) intercepting an Internet message from the source (the source node 103 in subnet A), the Internet message from the source being communicated using a first protocol (wherein the subnets A, B, C, and D all require different operating protocols);

communicating the Internet message from the node of the first type (the selected node 102 in subnet C) to the node of the second type (the selected node 102 in subnet D) using a second protocol (wherein the subnets A, B, C, and D all require different operating protocols); and

communicating the Internet message from the node of the second type (the selected node 102 in subnet D) to the destination (the destination node 104 in subnet B) using a third protocol (wherein the subnets A, B, C, and D all require different operating protocols) (Gerstel, Fig. 1 and corresponding text, C3: L1-4, L34-65, and C4: L45-54).

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16. As to claims 17-18, Gerstel teaches the method of claims 1-2, wherein the

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communicating step (c) of claim 1 and step (b) of claim 2 comprise redirecting the

Internet message from the source to the node of the first type (i.e., redirecting the

Internet message from the source node 103 in subnet A to the selected node 102 in

subnet C) (Gerstel, Fig. 1 and corresponding text, C3: L1-4, L34-65, and C4: L45-54).

17. As to claim 19, Gerstel teaches the method of claim 9, wherein the

communicating step (b) comprises redirecting the Internet message from the node of

the first type to the node of the second type (i.e., redirecting the Internet message from

the selected node 102 in subnet C to the selected node 102 in subnet D) (Gerstel, Fig. 1

and corresponding text, C3: L1-4, L34-65, and C4: L45-54).

18. Claims 36-49 are corresponding system claims of method claims 1-14; therefore,

they are rejected under the same rationale.

Claim Rejections - 35 USC § 103

19. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains.

Patentability shall not be negatived by the manner in which the invention was made.

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Claims 20-33, 50-61 and 63 are rejected under 35 U.S.C. 103(a) as being 20.

unpatentable over Gerstel, in view of Gelman et al. (US 6,415,329), herein after

referred as Gelman.

21. As to claims 20-22 and 25-26, Gerstel teaches the method of claims 1-2, 9 and

15-16, but does not explicitly teach wherein the first protocol is a standard protocol, the

second protocol is a high-performance protocol, and the third protocol is a standard

protocol.

In the related art, Gelman teaches a method for communicating an Internet

message between a source and a destination over the Internet using different protocols,

wherein the first protocol is a standard protocol (such as TCP), the second protocol is a

high-performance protocol (such as WLP), and the third protocol is a standard protocol

(such as TCP) (Gelman, Fig. 10 and corresponding text, C15: L55-64).

Therefore, it would have been obvious to one having ordinary skill in the art at

the time the invention was made to combine the teachings of Gerstel and Gelman to

implement/use a standard protocol for the first protocol, a high-performance protocol for

the second protocol, and a standard protocol for the third protocol because it would

allow the system to improve/optimize the performance of the TCP/IP protocol suite while

transmitting packets (i.e., Internet messages) over different environments/subnets using

protocols conversion/translation, which were conventionally employed in the art.

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22. As to claims 23-24, Gelman teaches the method of claims 13-14, wherein the fourth protocol is a standard protocol (as TCP), the fifth protocol is a high-performance protocol (as WLP), and the sixth protocol is a standard protocol (as TCP).

- 23. As to claims 27-33, Gelman teaches the method of claims 20-26, wherein the Internet message is a World Wide Web message (HTTP transfer file test).
- 24. Claims 50-61 and 63 are corresponding system claims of claims 20-33; therefore, they are rejected under the same rationale.
- 25. Claims 34-35 and 64-65 are rejected under 35 U.S.C. 103(a) as being unpatentable over Zhao (US 6,081,840), in view of Gerstel.
- 26. As to claim 34, Zhao teaches a method for providing web content to a source from a destination (Fig. 1), comprising:

communicating an Internet message to request web content from a source to a node (individual users 22-28 connect to a local content server 14-16 and request a data file);

if the node (local content server 14-16) includes the requested web content in its cache, communicating the web content from the node to the source (if the file is located at the local server, it is provided by the local server to the user); and

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if the node does not include the requested web content in its cache, communicating the Internet message requesting web content from the node (local content server 14-16) to the destination (source content server 10) (Zhao, Abstract, Fig. 1 and corresponding text).

However, Zhao does not explicitly teach the node is selected so as to optimize a measure of communications performance for a sub-link between the node and the destination.

In the related art, Gerstel teaches a method for selecting a node (or a subnet) from a plurality of candidate nodes by querying its resident agents based on the topology map database to optimize a measure of communications performance (such as data, bandwidth, quality of service "QoS", cost factors, etc) for a sub-link between the node and the destination (Gerstel, Figs. 10A-10B and corresponding text, C3: L60-65).

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to combine the teachings of Zhao and Gerstel to include the step of selecting a node so as to optimize a measure of communications from a node to a destination because it would allow the system to improve network routing calculations for routing data between two points and select the optimum routing path between the source and the destination from among possible routes to improve efficiency of data file distribution to remote users over the communication networks.

27. As to claim 35, Zhao-Gerstel teaches the method of claim 34, wherein the measure of communication performance is a combination of the network distance

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between the source and the node, the network distance between the node and the destination, and the probability that the requested web content is in the cache of the

node (i.e., to optimize the measure of communication performance combination of

various criteria such as shortest path, data, bandwidth, quality of service "QoS", cost

factors, etc) (Gerstel, Figs. 10A-10B and corresponding text, C3: L60-65).

28. Claims 64-65 are corresponding system claims of method claims 34-35;

therefore, they are rejected under the same rationale.

Claim Objections

29. Claim 62 is objected to as being dependent upon rejected base claims, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

- 30. Applicant's arguments as well as request for reconsideration filed on 09/12/2003 have been fully considered but they are moot in view of the new ground(s) of rejection.
- 31. Further references of interest are cited on Form PTO-892, which is an attachment to this office action.

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32. A shortened statutory period for reply to this action is set to expire THREE (3)

months from the mailing date of this communication. See 37 CFR 1.134.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Quang N. Nguyen whose telephone number is (703)

305-8190.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

SPE, Rupal Dharia, can be reached at (703) 305-4003. The fax phone number for the

organization is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is (703) 305-

3800/4700.

Quang N. Nguyen

LE HIEN LUU

PRIMARY EXAMINER